```
import numpy as np
import sklearn
my_array = np.array([[1, 4, 5, 6], [7, 8, 9, 10], [11, 12, 14, 16]])
print(my array)
print(my array.ndim)
print(type(my array))
print(my array.shape)
print(my array.size)
[[ 1 4 5 6]
[ 7 8 9 10]
[11 12 14 16]]
<class 'numpy.ndarray'>
(3, 4)
12
my_arr = np.array([[1, 2, 3, 4], [5, 6, 7, 8]])
print(np.resize(my_arr, (3,4)))
[[1 2 3 4]
[5 6 7 8]
[1 2 3 4]]
my first arr = np.array([1,2,3,4,5,6,7,8])
my_new_arr = np.reshape(my_first_arr, (2,4))
print(my new arr)
print(my first arr)
[[1 2 3 4]
[5 6 7 8]]
[1 2 3 4 5 6 7 8]
apple = np.array([1, 8, 23, 3, 18, 91, 7, 15])
apple slice = apple[1:4]
print(apple_slice)
print(apple)
apple slice[1]=99999
print(apple slice)
print(apple)
[ 8 23 3]
[ 1 8 23 3 18 91 7 15]
     8 99999
                 31
          8 99999
     1
                       3
                            18
                                  91
                                       7
                                              15]
X \text{ stat} = \text{np.array}([[1,2,3],[4,-5,6]])
print(X stat.mean())
print(X stat.std())
print(X stat.var())
```